

Muhammad Iqbal Gozy — Curriculum Vitae

Enterprise Backend / Systems Engineer

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GitHub (<https://github.com/qybbs>) | LinkedIn (<https://linkedin.com/in/iqbalgozy>) | Portfolio (<https://iqbalgozy.com>)

Summary

A high-performing Backend & Systems Engineer with proven expertise in building secure, scalable, and highly available architectures using Java (Spring Boot), Nest.js, and Golang patterns. Specialized in system design, Domain-Driven Design (DDD), microservices, and performance optimization for enterprise financial systems. Track record of engineering high-throughput resilient APIs, orchestrating complex distributed transactions, and optimizing database workloads to meet strict 99.99% availability and low-latency SLAs.

Professional Experience

Backend Software Engineer (Core Systems & Data Infrastructure)

AstraPay | Jakarta, Indonesia (Contract via Berijalan) | Oct 2025 – Present *Contributing to the development of AstraPay's digital wallet platform, specializing in high-throughput backend services, resilient distributed pipelines, and system reliability.*

Resilient Distributed Pipelines (Spring Batch): Designed and developed highly resilient data ingestion pipelines in Java using **Spring Batch**, featuring watermark-driven delta loading, dynamic schema evolution, and polymorphic type conflict self-healing for critical transactional data.

Secure B2B Reports API: Designed and implemented secure high-performance REST APIs and configured external API Gateway routes for B2B merchant reporting, employing clean architecture principles and robust security controls for enterprise financial data.

Database & Query Optimization: Architected highly optimized internal warehouse transformations using Dataform, replacing legacy full-refresh pipelines to eliminate redundant terabyte-scale scans, showcasing strong capability in RDBMS/SQL tuning.

Enterprise ETL Automation: Built automated background synchronization services integrating GCP, Sharepoint, and external endpoints, handling massive data loads and saving **24 hours** per sync cycle.

Tech Stack: Java, Spring Boot, Spring Batch, PostgreSQL, MongoDB, BigQuery, REST API, Git, Agile.

Backend Developer (Internship)

GeekGarden Software House | Yogyakarta, Indonesia | Mar 2025 – Jun 2025 *Built and optimized high-performance, secure backend REST APIs for government and enterprise client applications.*

Ministerial Procurement System (Nest.js): Architected and built high-performance REST APIs with Nest.js for a complex ministerial procurement platform. Designed robust state-machines handling the entire transactional tender lifecycle from merchant invitations to contract awards.

Authentication & Secure Coding: Implemented robust security policies using JWT-based token authentication, OAuth 2.0, and granular Role-Based Access Control (RBAC) to protect sensitive ministerial procurement data against unauthorized access.

Horizontal Scalability: Engineered the backend to support concurrent tender applications and large document uploads efficiently using Node.js event-driven non-blocking architecture.

Tech Stack: Node.js, Nest.js, PostgreSQL, JWT, OAuth, REST API, Git.

Fullstack Developer (Internship)

Berijalan Techno Center | Yogyakarta, Indonesia | Jun 2025 – Oct 2025 *Developed enterprise-grade internal systems and advanced backend automation tools to streamline company operations.*

Open-Source OCR Microservice: Designed and built a custom high-performance document-text-extractor API (<https://github.com/qybbs/document-text-extractor>) utilizing Python and Elasticsearch, successfully containerized (Docker) and integrated it with existing Java microservices for distributed document ingestion.

Custom ERP & Workflow Engineering: Developed complex backend logic flows and refactored financial tracking structures to expand dimensions from 2 to 7 segments, illustrating strong domain modeling and business logic implementation skills.

Tech Stack: Java, Spring Boot, Python, Elasticsearch, Docker, REST API, Git.

IT Support Specialist (Part-time)

Fastware Computer | Yogyakarta, Indonesia | Sep 2023 – Feb 2025 *Managed IT infrastructure, networks, and inventory systems to ensure business continuity.*

Asset & Operations Optimization: Optimized local IT asset inventory and network operations, reducing hardware replacement costs and lowering network downtime.

Technical Skills

Languages: Java, Golang (Familiar), TypeScript, Python, SQL (PostgreSQL, BigQuery)

Frameworks & Libraries: Spring Boot, Spring Security, Nest.js, Express.js, JUnit, Mockito

Architecture & Paradigms: Domain-Driven Design (DDD), Microservices, RESTful APIs, Horizontal Scaling, Secure Coding (JWT/RBAC), CI/CD, Agile/Scrum

Databases & Cloud: PostgreSQL, MongoDB, Redis (Familiar), Elasticsearch, Google Cloud Platform (GCP), AWS (Familiar)

Tools: Git, Docker, Datadog Monitoring, AI Coding Tools (Copilot, Cursor)

Featured Projects

document-text-extractor API (Containerized Microservice)

Lead Developer | Jul 2025 – Present

Developed a high-performance REST API for asynchronous document text extraction using Python OCR engines and Elasticsearch.

Designed a distributed queue-based document processing architecture to support high-throughput ingestion.

Packaged the service containerized (Docker) to enable seamless integration with Java/Spring Boot ecosystems.

Stack: Python, Elasticsearch, Docker, REST API, Git.

Education

Bachelor of Information Technology

Universitas Pembangunan Nasional "Veteran" Yogyakarta | Yogyakarta, Indonesia

Aug 2021 – Jul 2025 | **GPA: 3.77 / 4.00**

Certifications & Organizations

Bootcamp Graduate: Fullstack Developer - Bootcamp Berjalan Techno Center Batch 14

Professional Certification: BNSP Certified Junior Web Developer

Leadership Role: Chairman, HIMATIF (Informatics Student Association) UPN "Veteran" Yogyakarta (Feb 2024 – Mar 2025)